



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L18-9TC-DIM-UNV-OWW-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20347.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"ALUM SEMI-SPEC WALL WASH TRIM

[MORE] w/FROST FILM ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L18-9TC-DIM-UNV-OWW-OF-CS

[LAMPCAT] BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1666
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25840	15069	7834
55	21796	5097	1207
65	23847	1274	0
75	15308	149	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	1742.012	1742.012	1742.012	1742.012	1742.012	1742.012	1742.012	1742.012	1742.012
<b>5</b>	1763.474	1750.060	1744.695	1727.704	1710.713	1703.559	1706.242	1720.550	1723.232
<b>10</b>	1675.837	1666.894	1661.529	1646.326	1623.076	1621.287	1644.538	1654.375	1665.106
<b>15</b>	1523.813	1508.611	1511.294	1500.563	1483.572	1498.774	1514.871	1502.351	1520.236
<b>20</b>	1339.596	1305.615	1328.865	1312.769	1285.941	1312.769	1336.019	1296.672	1276.104
<b>25</b>	1074.896	1123.186	1089.205	1043.597	1016.770	1073.108	1085.628	1009.616	964.009
<b>30</b>	823.610	850.438	849.544	716.300	689.472	757.435	805.725	694.837	634.028
<b>35</b>	613.460	596.469	589.315	452.494	396.156	473.062	530.294	434.609	400.627
<b>40</b>	498.995	456.071	358.597	263.806	220.881	267.383	321.038	279.008	264.700
<b>45</b>	424.772	389.896	247.709	135.033	128.773	130.561	171.697	168.120	162.755
<b>50</b>	339.818	309.413	141.293	68.858	53.655	58.127	77.800	80.483	84.954
<b>55</b>	290.633	236.978	67.964	28.616	16.097	20.568	25.933	27.722	28.616
<b>60</b>	264.700	195.842	25.933	0.894	0.000	0.000	5.366	3.577	8.943
<b>65</b>	234.295	159.178	12.520	1.789	0.000	0.000	0.000	1.789	1.789
<b>70</b>	164.543	101.945	7.154	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	92.108	48.290	0.894	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	12.520	9.837	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	581.34	N.A.	34.90
0-30	1059.95	N.A.	63.60
0-40	1381.49	N.A.	82.90
0-60	1617.00	N.A.	97.10
0-80	1665.54	N.A.	100.00
0-90	1666.09	N.A.	100.00
10-90	1503.92	N.A.	90.30
20-40	800.16	N.A.	48.00
20-50	965.07	N.A.	57.90
40-70	270.96	N.A.	16.30
60-80	48.54	N.A.	2.90
70-80	13.09	N.A.	0.80
80-90	0.55	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1666.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.17
10-20	419.17
20-30	478.61
30-40	321.54
40-50	164.91
50-60	70.60
60-70	35.45
70-80	13.09
80-90	0.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

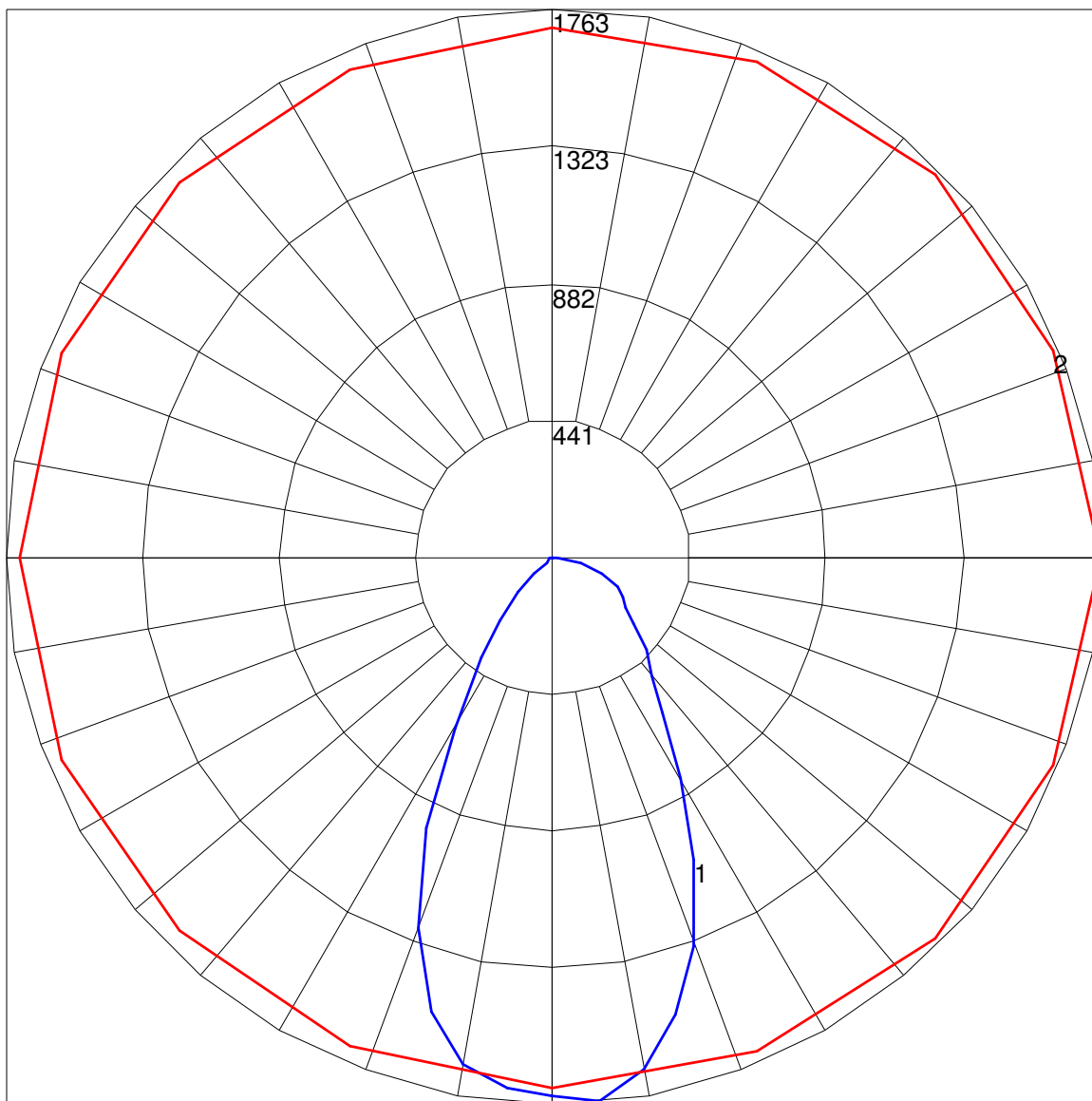
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	67	66
6	85	75	69	64	83	74	68	64	73	68	63	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

POLAR GRAPH



Maximum Candela = 1763.474 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)